

WHAT IS CLAIMED IS:

1. A seal assembly comprising:

a pair of seal rings (1) and (1) individually comprising lip portions (23) and (23) disposed such that each of said lip portions (23) and (23) protrudes in a direction opposing an axial direction; and

a load seal ring (2) compressed and inserted between said seal rings (1) and (1), said load seal ring (2) exerting reaction forces on said lip portions (23) and (23) outwardly in the axial direction.

2. The seal assembly as defined in claim 1, further comprising an outer-diameter controller body (32) for controlling the displacement of said load seal ring (2) in a periphery outer direction.

3. The seal assembly as defined in claim 1, further comprising an inner-diameter controller body (32) for controlling the displacement of said load seal ring (2) in a periphery inner direction.

4. The seal assembly as defined in claim 1, wherein one of said seal rings (1) and (1) comprises said outer-diameter controller body (32) for controlling the displacement of

said load seal ring (2) in the periphery outer direction, and the other one of said seal rings (1) and (1) comprises said inner-diameter controller body (32) for controlling the displacement of said load seal ring (2) in the periphery inner direction.

5. The seal assembly as defined in one of claims 1 to 4, wherein said load seal ring (2) comprises a circumferential groove (27) that tolerates axial-direction compression.

6. The seal assembly as defined in one of claims 1 to 5, wherein a cross section of said seal assembly is symmetric with respect to a radial-direction line passing the center thereof.

7. The crawler-track connection structure comprising:

a pin (8) to be inserted through superposed end portions of links (5) and (5); and

a seal assembly (8) externally fitted on said pin (8) for preventing overflow of a lubricant to the outside, the lubricant being supplied to an outer peripheral side of said pin (8).

wherein

one of said links (5) and (5) is immobilized on said pin (8);

the other one of said links (5) and (5) is supported on said pin (8) to be rotatable thereon; and

said seal assembly comprises

a load seal ring (2) disposed between radial-direction walls (W) and (W) opposing each other along an axial direction,

a first seal ring (1) comprising a lip portion (23) press-engaged with one of said radial-direction walls (W) and (W) according to a pressure exerted from said load seal ring (2), and

a second seal ring (1) comprising a lip portion (23) press-engaged with the other one of said radial-direction walls (W) and (W) according to a pressure exerted from said load seal ring (2).

8. The crawler-track connection structure as defined in claim 7, further comprising a bushing (12) immobilized in the other one of said links (5) and (5) to be rotatable on said pin (8), and an end surface of said bushing (12) functions as the one of said radial-direction walls (W) and (W).

9. The crawler-track connection structure as defined in claim 7, further comprising:

a bushing (12) immobilized in the other one of said

links (5) and (5) to be rotatable on said pin (8); and  
a bushing (13) on the side of a sprocket (18),  
wherein said seal assembly (S) is inserted between said  
bushing (12) and said bushing (13).

10. The crawler-track connection structure as defined in  
one of claims 7 to 9, further comprising a ring body (31)  
disposed in an inner-diameter side of said load seal ring  
(2) for controlling the displacement of said load seal ring  
(2) in a periphery inner direction.

11. The crawler-track connection structure as defined in  
one of claims 7 to 9, further comprising a dust seal ring  
(37) disposed in an outer peripheral side of said seal  
assembly (S).